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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/665,722 09/19/2003 | | Victor Morozov | NOVUS1170-1 | 4650 |
| 28598 7590 03/19/2008 GEORGE MASON UNIVERSITY OFFICE OF TECHNOLOGY TRANSFER, MSN 5G5 4400 UNIVERSITY DRIVE | | | EXAMINER | |
| | | | JUNG, UNSU | |
| FAIRFAX, VA 22030 | | | ART UNIT | PAPER NUMBER |
| | | | 1641 | |
| | | | | |
| | | | MAIL DATE | DELIVERY MODE |
| | | | 03/19/2008 | PAPER |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | Application No. | Applicant(s) | | |
|--|--|--|--|--|
| | 10/665,722 | MOROZOV ET AL. | | |
| Office Action Summary | Examiner | Art Unit | | |
| | Unsu Jung | 1641 | | |
| The MAILING DATE of this communication app Period for Reply | pears on the cover sheet with the c | orrespondence address | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE | N. nely filed the mailing date of this communication. D (35 U.S.C. § 133). | | |
| Status | | | | |
| Responsive to communication(s) filed on 11 D This action is FINAL . 2b) ☑ This Since this application is in condition for alloward closed in accordance with the practice under E | action is non-final. nce except for formal matters, pro | | | |
| Disposition of Claims | | | | |
| 4) Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) <u>8,9 and 14-20</u> is/are 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) <u>1-7 and 10-13</u> are subject to restriction | withdrawn from consideration. | | | |
| Application Papers | | | | |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex | epted or b) objected to by the Eddrawing(s) be held in abeyance. Seetion is required if the drawing(s) is obj | e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d). | | |
| Priority under 35 U.S.C. § 119 | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | |
| Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate | | |

Application/Control Number: 10/665,722 Page 2

Art Unit: 1641

DETAILED ACTION

As a preliminary matter, the petition under 37 CFR 1.137(b) filed December 12,
 2007 to revive the instant application has been granted by the Office of Petitions on
 Feb. 7, 2008.

Election/Restrictions

2. Applicant's election with traverse of Group I (claims 1-13) and species a, centrifugal force (claim 7), in the reply filed on December 12, 2007 is acknowledged. The traversal is on the ground(s) that the claims in the application involve related, overlapping subject matter, namely detecting biological analyte(s) and the search can therefore be directed towards the overall analyte detection. Applicant further argues that the application may be examined without undue search burden. This is not found persuasive because Restriction for examination purposes as indicated in the previous Office Action dated June 21, 2006 is proper because all the inventions listed in the action are independent or distinct for the reasons given previously (item 4 of the previous Office Action dated June 21, 2006). Further, there would be a serious search and examination burden if restriction were not required because the inventions have acquired a separate status in the art in view of their different classification (item 2 of the previous Office Action dated June 21, 2006); the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries); and the inventions are likely to raise different nonprior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph. Literature search for each method and apparatus/device is distinct since the structural requirements of each invention are different. While searches would be expected to overlap, there is no reason to expect the searches to be coextensive.

The requirement is still deemed proper and is therefore made FINAL.

3. Claims 1-20 are pending, claims 8, 9, and 14-20 have been withdrawn from consideration as a result of election of Group I and species a in the reply filed on December 12, 2007.

4. Upon further consideration of claim 6, the following supplemental election of species is required.

This application contains claims directed to the following patentably distinct species:

List: Analyte Bound Species

- A. Analyte bound to a particle (claim 6)
- B. Analyte forms a portion of a natural complex (claim 6)

The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-5, 7, and 10-13 are generic.

Page 4

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

Application/Control Number: 10/665,722 Page 5

Art Unit: 1641

showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Unsu Jung whose telephone number is (571)272-8506. The examiner can normally be reached on M-F: 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/665,722 Page 6

Art Unit: 1641

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Unsu Jung/ Unsu Jung, Ph.D. Patent Examiner Art Unit 1641